AGRICULTURAL WATER MANAGEMENT

Volumes 1–25, 1976–1994

PUBLICATION OVERVIEW

Volume 1	*1976/1978*
Volume 2	*1979/1980*
Volume 3	*1980/1981*
Volume 4	*1981*
Volume 5	*1982*
Volume 6	*1983*
Volume 7	*1983*
Volume 8	*1984*
Volume 9	*1984/1985*
Volume 10	*1985*
Volume 11	*1986*
Volume 12	*1986/1987*
Volume 13	*1988*
Volume 14	*1988*
Volume 15	*1988/1989*
Volume 16	*1989*
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Volume 18	*1990*
Volume 19	*1991*
Volume 20	*1991/1992*
Volume 21	*1992*
Volume 22	*1992*
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Volume 24	*1993*
Volume 25	*1994*

SUBJECT INDEX

Agricultural Water Management, volumes 1–25

Contents

ELSEVIER

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Agricultural water management

Introduction

Agriculture Water Management covers a broad spectrum of subjects in the fields of irrigation, drainage, and water conservation. The 25 volumes show a wide diversity in publications, including subjects such as cloud seedling, socio-economic aspects of irrigation, salt or pesticide leaching, filter envelopes for pipe drainage, groundwater flow, and breeding for drought resistance of crops, all in one way or another pertaining to water management for agriculture.

In view of this broad range of subjects, the keywords of the index, a total of 332, have not been listed simply in alphabetical order, but first according to a division in sections and, often, in subsections, and then alphabetically in the sections or subsections, which contain at the most about 25 keywords. In this way, the index user, after consulting the division in sections and subsections, can rapidly survey all publications in the past 25 volumes pertaining to irrigation methods, crops, models, etc. The division of the keywords is somewhat arbitrary, e.g. salt tolerance has been listed in Section 7.1. Crop growth, as it is a crop property and refers to crop growth, but it could also have been listed in Section 4. Salt. Sometimes a second keyword is placed between brackets behind a keyword with which it is synonymous or narrowly related e.g. continuous irrigation (ponding), filter envelope (drain filter), infiltration (infiltration rate, water intake rate, infiltration characteristics, cumulative infiltration, infiltration equation).

Authors of future publications are requested to use the keywords of this index and, when introducing new keywords, to indicate the sections or subsections, in which those keywords should be listed.

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1. Irrigation

1.1. Method

Furrow irrigation

1.2. Schedule

1.3. Regime

Irrigation regime (combination of amount and frequency)

1.4. Design and construction

Advance-recession curve (length, phase, time)

1.5. Monitoring, operation and maintenance

Uniformity (distribution uniformity, irrigation water distribution, infiltration uniformity)

Water mixing

Weir

1.6. Socio-economic aspects

Health effect

International watercompetition

Irrigation development

Irrigation effect (economic evaluation, appraisal, benefit of irrigation)

Irrigation management

Socio-economic evaluation

Sustainability

Water pricing

Water resource management

Water user's association

2. Drainage

2.1. Method

Drainage

Interceptor drainage

Mole drainage

Subsurface (pipe, tile) drainage

Surface drainage

Trenchless drainage

2.2. Design and construction

2.3. Monitoring, operation and maintenance

Clay pan (hard pan) soil

Hydraulic conductivity

Hydraulic soil properties

Macropore (bypass, fissure)

Infiltration (infiltration rate, water intake rate, infiltration characteristics, cumulative infiltration, infiltration equation)

Percolation

Preferential flow (bypass flow)

Recharge

3.3. Groundwater

4. Salt

Calcium

Carbonates

Convective transport (flow, flux)

Diffusive transport (flow, flux)

Diffusion-convection transport

Dryland salinity (saline seep)

Gypsum

Soil salinity

Soil sodicity

Solute transport

5. Water conservation

Clay lining

Contour bunding (contour banks)

Erosion

Farmwater reservoir (farm dam, storage tank)

Micro catchment

Reservoir sedimentation

6. Climate and hydrology

6.1. Climate

Aridity index

Atmospheric carbon dioxyde

Climate change

Cloud seedling

Evaporation

Evapotranspiration

Evapotranspiration measurement (determination, equation)

6.2. Hydrology

7. Crop growth and crops

7.1. Crop growth

Crop yield (production)

Crop yield estimation

Drought detection

Drought resistance (tolerance)

Early seedling growth

Germination

7.2. Crops

Alfalfa (*Medicago sativa*)

Almond (*Prunus amygdatus*)

Apple (*Malus sylvestris*)

Avocado (*Persea americana*)

Banana (*Musa species*)

Barley (*Hordeum vulgare*)

Bermuda grass (*Cynodon dactylon*)

Berseem (*Trifolium alexandrinum*)

Broadbean (*Vicia faba*)

Wheat (*Triticum aestivum*)

8. Land use and farm management

8.1. Land use

Agroforestry

Annual pasture

Arable land

Bog reserve

Forest (tree)

Grassland

Land use

Shrubs

8.2. Farm management

Cropping pattern

Furrow irrigation

Irrigation regime

Irrigation water distribution

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